Contents of *Forest Ecology and Management*, Volume 38

VOL. 38 NOS. 1,2 — DECEMBER 1990

Soil disturbance and loss of infiltrability caused by mechanized and manual extraction of tropical rainforest in Sabah, Malaysia
A. Malmer and H. Grip (Umeå, Sweden) 1
Effects of post-harvest residue management on labile soil phosphorus in a *Pinus radiata* plantation
M.A. Bekunda (Canberra, A.C.T., Australia), P.J. Smethurst (Mount Gambier, S.A., Australia), P.K. Khanna and I.R. Willett (Canberra, A.C.T., Australia) 13
Effects of shading on shoot morphology, wood production and structure of *Quercus petraea* seedlings
A.B.I. Igboanugo (London, U.K.) 27
Changes in soil, vegetation and forest yield between 1947 and 1988 in beech and oak sites of southern Sweden
U. Falkengren-Grerup (Lund, Sweden) and H. Eriksson (Garpenberg, Sweden) 37
Water balance of *Eucalyptus globulus* and *Quercus suber* forest stands in south Portugal
A. P. de Almeida (Lisboa, Portugal) and H. Riekerk (Gainesville, FL, U.S.A.) 55
Growth response of northern red-oak and yellow-poplar seedlings to light, soil moisture and nutrients in relation to ecological strategy
T.E. Kolb, K.C. Steiner, L.H. McCormick and T.W. Bowersox (University Park, PA, U.S.A.) 65
Simulating the forest and the point-sampling process as an aid in designing forest inventories
M.S. Mackisack and G.B. Wood (Canberra, A.C.T., Australia) 79

Short Communication
Germination of kadad (*Dichrostachys cinerea*) seed following pod digestion by goats, and various chemical treatments
I.M. Hashim (Kadugli, Sudan) 105

Book Reviews
Advances in soil science 111
Forest insects 113
Genetic effects of air pollutants 115

VOL. 38 NOS. 3,4 — FEBRUARY 1991

Preface
P.R. Leopoldo (Botucatu, Brazil) 119
Introduction to the Symposium:
Amazonia: deforestation and possible effects
H. Sioli (Plön, Germany) 123

Contents of *Forest Ecology and Management*, Volume 38

VOL. 38 NOS. 1,2 — DECEMBER 1990

Soil disturbance and loss of infiltrability caused by mechanized and manual extraction of tropical rainforest in Sabah, Malaysia
A. Malmer and H. Grip (Umeå, Sweden) 1
Effects of post-harvest residue management on labile soil phosphorus in a *Pinus radiata* plantation
M.A. Bekunda (Canberra, A.C.T., Australia), P.J. Smethurst (Mount Gambier, S.A., Australia), P.K. Khanna and I.R. Willett (Canberra, A.C.T., Australia) 13
Effects of shading on shoot morphology, wood production and structure of *Quercus petraea* seedlings
A.B.I. Igboanugo (London, U.K.) 27
Changes in soil, vegetation and forest yield between 1947 and 1988 in beech and oak sites of southern Sweden
U. Falkengren-Grerup (Lund, Sweden) and H. Eriksson (Garpenberg, Sweden) 37
Water balance of *Eucalyptus globulus* and *Quercus suber* forest stands in south Portugal
A. P. de Almeida (Lisboa, Portugal) and H. Riekerk (Gainesville, FL, U.S.A.) 55
Growth response of northern red-oak and yellow-poplar seedlings to light, soil moisture and nutrients in relation to ecological strategy
T.E. Kolb, K.C. Steiner, L.H. McCormick and T.W. Bowersox (University Park, PA, U.S.A.) 65
Simulating the forest and the point-sampling process as an aid in designing forest inventories
M.S. Mackisack and G.B. Wood (Canberra, A.C.T., Australia) 79

Short Communication
Germination of kadad (*Dichrostachys cinerea*) seed following pod digestion by goats, and various chemical treatments
I.M. Hashim (Kadugli, Sudan) 105

Book Reviews
Advances in soil science 111
Forest insects 113
Genetic effects of air pollutants 115

VOL. 38 NOS. 3,4 — FEBRUARY 1991

Preface
P.R. Leopoldo (Botucatu, Brazil) 119
Introduction to the Symposium:
Amazonia: deforestation and possible effects
H. Sioli (Plön, Germany) 123

Palms as key swamp forest resources in Amazonia
F. Kahn (Lima, Peru) 133
Changes in the landscape of Latin America between 1850 and 1985:
I. Progressive loss of forests
R.A. Houghton (Woods Hole, MA, U.S.A.), D.S. Lefkowitz (Austin, TX, U.S.A.) and D.L. Skole (Durham, NH, U.S.A.) 143
Changes in the landscape of Latin America between 1850 and 1985:
II. Net release of CO_2 to the atmosphere
R.A. Houghton (Woods Hole, MA, U.S.A.), D.L. Skole (Durham, NH, U.S.A.) and D.S. Lefkowitz (Austin, TX, U.S.A.) 173
Measurement of the natural variation of $^{13}C:^{12}C$ ratio in leaves at Reserva Ducke Forest, central Amazonia
C. Ducatti, E. Salati and D. Martins (São Paulo, Brazil) 201
The Priestley-Taylor parameter α for the Amazon forest
Y. Viswanadham, V.P. Silva Filho (S.J. Campos, SP, Brazil) and R.G.B. André (Jaboticabal, Brazil) 211
Influence of protection forest on soil and water conservation (Oxapampa, Peru)
A.P. Plamondon (Saint Foy, Que., Canada), R.A. Ruiz, C.F. Morales and M.C. Gonzalez (Lima, Peru) 227
Mercury in the Madeira River ecosystem, Rondônia, Brazil
W.C. Pfeiffer, O. Malm, C.M.M. Souza (Rio de Janeiro, Brazil), L.D. de Lacerda (Niterói, Brazil), E.G. Silveira (Rondônia, Brazil) and W.R. Bastos (Rio de Janeiro, Brazil) 239
Nature and behaviour of organic matter in soils under natural forest, and after deforestation, burning and cultivation near Manaus
C.C. Cerri (Piracicaba, Brazil), B. Volkoff (Yaounde, Republic of Cameroun) and F. Andreux (Vandoeuvre-lès-Nancy, France) 247
Changes in soil pore space distribution following deforestation and revegetation: An example from the Central Amazon Basin, Brazil
A. Chauvel (Manaus AM Brésil), M. Grimaldi (Cayenne, Guyane Fr.) and D. Tessier (Versailles, France) 259
Consequences of clearing and tillage on the soil of a natural Amazonian ecosystem
P.F. da S. Martins (Belem, Brazil), C.C. Cerri (Piracicaba, Brazil), B. Volkoff (Yaoundè, Republic of Cameroun), F. Andreux (Vandoeuvre-lès-Nancy, France) and A. Chauvel (Manaus, Brazil) 273
Effect of forest clearance and burning on soil properties in northern Roraima, Brazil
M.J. Eden (London, Great Britain), P.A. Furley (Edinburgh, Great Britain), W. Milliken and J.A. Ratter (Edinburgh, Great Britain) 283
Estimation, by remote sensing, of deforestation in central Rondônia, Brazil
T.A. Stone, I.F. Brown, G.M. Woodwell (Woods Hole, MA, U.S.A.) 291

Author Index 305

Subject Index 307

Contents of *Forest Ecology and Management*, Volume 38 310